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93) numbered from the N-terminus and

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AMENDMENTS TO THE CLAIMS

Please cancel claims 49, 50, and 52-68 without prejudice.

- 1-39. (Cancelled)
- 40. (Previously Presented) A nucleic acid molecule encoding a heregulin variant having an amino acid sequence not found in nature and the ability to bind an ErbB receptor, wherein said variant comprises a methionine residue in place of amino acid residues corresponding to residue numbers 228 to 231 of native human heregulin-β1 (SEQ ID NO:

said heregulin variant comprises a portion that is at least 70% identical to the portion from about residue 175 to about residue 230 of native human heregulin-β1 (SEQ ID NO: 93), said heregulin variant having a greater specificity for the ErbB-4 receptor, relative to the ErbB-3 receptor, than a heregulin that differs from the heregulin variant only in that the heregulin comprises said amino acid residues corresponding to residue numbers 228 to 231 in place of said methionine.

- 41. (Previously Presented) The nucleic acid molecule of claim 40, said heregulin variant additionally comprising the amino acid substitution H178L.
- 42. (Previously Presented) The nucleic acid molecule of claim 40, wherein said heregulin is a human heregulin.
- 43. (Previously Presented) The nucleic acid molecule of claim 42, wherein said human heregulin is heregulin- β 1.
- 44. (Previously Presented) The nucleic acid molecule of claim 40, wherein said heregulin variant is a fragment.

Application No.: 10/082,747 Page 3 (Previously Presented) The nucleic acid molecule of claim 44, wherein said fragment 45. comprises residues corresponding to a portion of human heregulin-\beta1 extending from about residue 175 to about residue 245. 46. (Previously Presented) A vector comprising the nucleic acid molecule of claim 40. 47. (Previously Presented) A host cell comprising the vector of claim 46. (Previously Presented) A method of producing a variant of a heregulin, said method 48. comprising: (a) culturing the host cell of claim 47 under conditions that allow expression of the heregulin variant; and (b) recovering the heregulin variant from the culture. 49. (Cancelled) 50. (Cancelled) 51. (Previously Presented) A composition comprising the heregulin variant of claim 40 and a pharmaceutically acceptable carrier. 52-68. (Cancelled)